

What is claimed is:

1           1.     An organic electroluminescent device, comprising:  
2           a transparent substrate;  
3           a transparent electrode formed on the transparent  
4 substrate;  
5           an organic thin film layer formed on the transparent  
6 electrode to be a front electrode in a display area;  
7           a back electrode formed opposite to the front electrode  
8 on the organic thin film layer;  
9           a metal auxiliary electrode to be leading wiring laminated  
10 on the transparent electrode outside the display area; and  
11           a sealing member bonded and fixed to the transparent  
12 substrate so that it encircles the display area, wherein:  
13           one or plural locations which crosses/cross the metal  
14 auxiliary electrode and which is/are non-continuous in the  
15 longitudinal direction of the metal auxiliary electrode is/are  
16 formed in the metal auxiliary electrode located in a bonded part  
17 of the transparent substrate and the sealing member.

1           2.     An organic electroluminescent device, comprising:  
2           a transparent substrate;  
3           a transparent electrode formed on the transparent  
4 substrate;  
5           an organic thin film layer formed on the transparent  
6 electrode to be a front electrode in a display area;  
7           a back electrode formed opposite to the front electrode

8 on the organic thin film layer;

9 a metal auxiliary electrode to be leading wiring laminated  
10 on the transparent electrode outside the display area; and

11 a sealing member bonded and fixed to the transparent  
12 substrate so that it encircles the display area, wherein:

13 a pair of metal auxiliary electrodes are formed on the  
14 transparent electrode to be the leading wiring outside the  
15 display area; and

16 one or plural locations which crosses/cross the metal  
17 auxiliary electrode and which is/are non-continuous in the  
18 longitudinal direction of the metal auxiliary electrode is/are  
19 formed in the metal auxiliary electrode located in the bonded  
20 part of the transparent substrate and the sealing member.

1 3. The organic electroluminescent device according  
2 to claim 2, wherein:

3 the length of each opposite part of a pair of opposite  
4 metal auxiliary electrode in the bonded part of the leading wiring  
5 and the sealing member is longer than the width of the leading  
6 electrode.

1 4. The organic electroluminescent device according to  
2 claim 1, wherein:

3 the metal auxiliary electrode is provided to the leading  
4 wiring of the back electrode.

1 5. The organic electroluminescent device according to

2 claim 4, wherein:

3 the metal auxiliary electrode is further provided to the  
4 leading wiring of the front electrode.

1 6. The organic electroluminescent device according to  
2 claim 1, wherein:

3 area occupied by the transparent electrode being exposed  
4 in a bonded part of the leading wiring and the sealing member  
5 is in a range of 50 to 90% of the whole area of the bonded part.

1 7. The organic electroluminescent device according to  
2 claim 2, wherein:

3 area occupied by the transparent electrode being exposed  
4 in a bonded part of the leading wiring and the sealing member  
5 is in the range of 50 to 90% of the whole area of the bonded  
6 part.

1 8. The organic electroluminescent device according to  
2 claim 1, wherein:

3 a resistance value of the leading wiring is 30  $\Omega$  or less.

1 9. The organic electroluminescent device according to  
2 claim 2, wherein:

3 a resistance value of the leading wiring is 30  $\Omega$  or less.

1 10. The organic electroluminescent device according to  
2 claim 1, wherein:

3 the leading wiring and the sealing member are bonded by  
4 a ultraviolet cured adhesive.

1 11. The organic electroluminescent device according to  
2 claim 2, wherein:

3 the leading wiring and the sealing member are bonded by  
4 a ultraviolet hardened adhesive.

1 12. The organic electroluminescent device according to  
2 claim 1, wherein:

3 the organic thin film layer has one of configuration  
4 including only an organic luminescent layer, configuration  
5 composed of an organic luminescent layer and an electron  
6 transport layer, configuration composed of an organic  
7 luminescent layer and a hole transport layer and configuration  
8 composed of a hole transport layer, an organic luminescent layer  
9 and an electron transport layer.

1 13. The organic electroluminescent device according to  
2 claim 2, wherein:

3 the organic thin film layer has one of configuration  
4 including only an organic luminescent layer, configuration  
5 composed of an organic luminescent layer and an electron  
6 transport layer, configuration composed of an organic  
7 luminescent layer and a hole transport layer and configuration  
8 composed of a hole transport layer, an organic luminescent layer  
9 and an electron transport layer.

1        14.    An organic electroluminescent device, comprising:  
2        a transparent substrate;  
3        plural transparent electrodes formed on the transparent  
4        substrate;  
5        an organic thin film layer formed on the transparent  
6        electrode to be a front electrode in a display area;  
7        plural back electrodes respectively formed opposite to  
8        the front electrode on the organic thin film layer;  
9        plural metal auxiliary electrodes to be leading wiring  
10        respectively laminated on the plural transparent electrodes  
11        outside the display area; and  
12        a sealing member bonded and fixed to the transparent  
13        substrate so that it encircles the display area, wherein:  
14        one or plural locations which crosses/cross each metal  
15        auxiliary electrode and which is/are non-continuous in the  
16        longitudinal direction of the metal auxiliary electrode is/are  
17        formed in each metal auxiliary electrode located in a bonded  
18        part of the transparent substrate and the sealing member.

1        15.    The organic electroluminescent device according to  
2        claim 14, wherein:

3        each pair of the plural metal auxiliary electrodes to be  
4        leading wiring is formed on the transparent electrode outside  
5        the display area; and

6        distance between a first metal auxiliary electrode  
7        continuous inside the sealing member and a second metal auxiliary

8 electrode continuous outside the sealing member of first leading  
9 wiring in a bonded part of the first leading wiring and the sealing  
10 member is shorter than distance between the first metal auxiliary  
11 electrode and the a third metal auxiliary electrode continuous  
12 outside the sealing member of second leading wiring adjacent  
13 to the first leading wiring.

1 16. The organic electroluminescent device according to  
2 claim 15, wherein:

3 a non-continuous pattern of the metal auxiliary electrode  
4 in a bonded part of the first leading wiring and the sealing  
5 member is in the relation of a reflected image with a  
6 non-continuous pattern of the metal auxiliary electrode in a  
7 bonded part of the second leading wiring and the sealing member.

1 17. The organic electroluminescent device according to  
2 claim 14, wherein:

3 the length of each opposite part of a pair of opposite  
4 metal auxiliary electrodes in a bonded part of the leading wiring  
5 and the sealing member is longer than the width of the leading  
6 electrode.

1 18. The organic electroluminescent device according to  
2 claim 14, wherein:

3 the metal auxiliary electrode is provided to each leading  
4 wiring of the plural back electrodes.

1           19.    The organic electroluminescent device according to  
2 claim 18, wherein:  
3           the metal auxiliary electrode is further provided to each  
4 leading wiring of the plural front electrodes.